PAGE 4/6\* RCVD AT 2/6/2004 3:22:55 PM [Eastern Standard Time] \* SVR:USPTO-EFXRF-1/3\* DNS:8729365\* CSID:+703 905 2500\* DURATION (mm-ss):02-34

Capon, et al., "Designing CD4 immunoadhesins for AIDS therapy," Nature, 1989, 337, 525—531

Cohen, J., New protein steals the show as 'costimulator' of T cells, Science, (1993) 262 844-845.

PHURGAMBEL 2/14/05

YR

ZR

10/073138

Feb-06-2004 15:24 From-PILLSBURY WINTHROP

+703-905-2500

T-868 P.005/006 F-500

	2004 15	
00	AAR I	Dautigny, et al., "Molecular cloning and nucleotide sequence of a cDNA clone coding for rat brain myelin proteolipid," FEBS Left., 1985, 188(1):33-36.
$\Theta$	BBR	Delable, et al., "The B7/BB1 antigen is expressed by Reed" Statilizing cells of The B7/BB1 antigen is expressed by Reed" Statilizing cells of The B7/BB1 antigen is expressed by Reed" Statilizing cells of The B7/BB1 antigen is expressed by Reed" Statilizing cells of The B7/BB1 antigen is expressed by Reed" Statilizing cells of The B7/BB1 antigen is expressed by Reed" Statilizing cells of The B7/BB1 antigen is expressed by Reed" Statilized Cells of The B7/BB1 antigen is expressed by Reed" Statilized Cells of The B7/BB1 antigen is expressed by Reed" Statilized Cells of The B7/BB1 antigen is expressed by Reed" Statilized Cells of The B7/BB1 antigen is expressed by Reed" Statilized Cells of The B7/BB1 antigen is expressed by Reed" Statilized Cells of The B7/BB1 antigen is expressed by Reed Cells of The B7/BB1 antigen is expressed by Reed Cells of The B7/BB1 antigen is expressed by Reed Cells of The B7/BB1 antigen is expressed by Reed Cells of The B7/BB1 antigen is expressed by Reed Cells of The B7/BB1 antigen is expressed by Reed Cells of The B7/BB1 antigen is expressed by Reed Cells of The B7/BB1 antigen is expressed by Reed Cells of The B7/BB1 antigen is expressed by Reed Cells of The B7/BB1 antigen is expressed by Reed Cells of The B7/BB1 antigen is expressed by Reed Cells of The B7/BB1 and T
+		
1	DDR	Durie, et al., The role of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and compared to the control of CD40 and its ligand (gp39) in paripheral and control of CD40 and its ligand (gp39) in paripheral and control of CD40 and its ligand (gp39) in paripheral and control of CD40 and its ligand (gp39) in paripheral and control of CD40 and its ligand (gp39) in paripheral and control of CD40 and its ligand (gp39) in paripheral and control of CD40 and co
+	EER	Durie, et al. "Prevention of collagen-induced artinius with air artificoty to speed are against
-	FFR	1993, 261:1328-1330.  Falini, et al., "Response of refractory Hodgkin's disease to monoclonal anti-CD30 immunotoxin," Lancet,
-	GGR	1992, 339.1195-1196,.  Freeman, et al., "Uncovering of functional alternative CTLA-4 counter-receptor in B7-deficient mice," Science 2002, 2007, 2009.
	ннR	1993, 262:907-909.  Freeman, et al., "Cloning of B7-2: a CTLA-4 counter-receptor that costimulates human T cell proliferation,"
	IIR	Science, 1993, 262 909-911  Gernitse, et al., *CD40-CD40 ligand interactions in experimental allergic encephalomyelitis and multiple scienosis,* Proc. Natl. Acad. Sci. USA, 1996, 93.2499-2504.
-	JJR	Gottlieb, et al., "Results of a single-dose dose-escalating that of an anti-b/." anubody (IDEC-114) in patient
<del>                                     </del>	KKR	Goulieb, et al., "Clinical and histologic response to single-dose treatment of moderate to severe positions." I Am Acad Dermatol. 2002, 47:693-700.
+	LLR	Guinan, et al., "Pivotal role of the B7:CD28 pathway in transplantation tolerance and tumor interaction
+	MMR	Hafter, et al., "The potential of restricted T cell recognition of myelin basis protein epitopes in the dierapy of
+	NNR	Hariharan, et al., 'Therapeutic activity of IDEC-114 (anti-CDB0) and muximab (mituxans) in B-call lymphon
	OOR	Hathcock, et al., Identification of an alternative CTLA-4 ligand costimulatory for 1 cell activation, Section 1
	PPR	Hollenbaugh, et al., "The human T cell antigen gp39, a member of the TNF gene family, is a lightly to the CD40 receptor expression of a soluble form of gp39 with B cell co-stimulatory activity," <i>EMBO J.</i> , 1992, 11/12) 4313-4321
+	QQR	Value - Impurosuporessive merapy * Curr Opin Immunol., 1992, 4:553-560.
1	RRR	Karpus, et al. "CD4+ suppressor cells differentially affect the production of IFN-y by effector cells of the IFN-y by effector cells of th
-	SSR	The second strategies for doin design and discovery. Science, 1992, 257, 1076-02.
$\dagger$	TTR	Laman, et al., "The role of gp39 (CD40 figand) in EAE and MS," Journal of Neuroinfillationary, 1334, 54(
+	UUR	1
_	VVR	Lider, et al., "Suppression of experimental autoimmune encephalomyetitis by oral admittistration of mystim
-	ww	R Linsley, et al., "The role of the CD28 receptor during T cell responses to antigen," Ann. New Intultation, 13
	XXR	Liu. et al., "Blockade of CD28/CTLA-4-B7 co-stimulatory pathway in colitic SCID mica," Digestive Disease
	YYR	McCafferty, et al ," Phage antibodies. filamentous phage displaying antibody variable domains, watere, i
	ZZR	Miller, et al., "Antigen-driven bystander suppression after oral administration of antigens, "J Exp. Mett., "
	, ,	R Mokhtarion, et al., "Adoptive transfer of myelin basic protein-sensifized T cells produces chronic relapsing
		Morrison, et al., "Chimene human antibody molecules, mouse antigen-binding domains with human cond
_		CR Munro, et al., "In vivo expression of the B7 costimulatory molecule by subsets of antigen-presenting cells of Hodgium's disease." Blood, 1994, 83:793-798
A +	<del></del>	DR Ngo, et al., in Merz, Jr. and Le Grand (eds). The Protein Folding Problem and Tertiary Structure Prediction

PAGE 5/6 \* RCVD AT 2/6/2004 3:22:55 PM [Eastern Standard Time] \* SVR:USPTO-EFXRF-1/3 \* DHIS:8729306 \* CSID:+703 905 2500 \* DURATION (mm-ss):02-34

PHILLIP GAMBER 2/14/05

Feb-06-2004 15:24 From-PILLSBURY WINTHROP

+703-905-2500

T-868 P.006/006 F-500

Fab-06-7	CUU4 15	24 From-PillzBukt Wininkop 4103-805-2000 1-000 F-000
• / L I		Nickoloff, et al., "T lymphocytes in skin lesions of psoriasis and mycosis fungoides express B7-1: a ligand for CD28," Blood, 1994, 83:2580-2586.
	FFFR	Noelle, et al., "A 39-kDa protein on activated helper T cells binds CD40 and transduces the signal for cognate
	GGGR	Oisson, et al., "Human-human monoclonal antibody-producing hybridomas, technical aspects, <i>moun.</i>
	HHHR	Pernn, et al., "Opposing effects of CTLA4-tg and anti-CD80 (B7-1) plus anti-CD86 (B7-2) on experimental colors appearance and anti-CD86 (B7-2) on experimental colors appearance and anti-CD86 (B7-2) on experimental colors and anti-CD86 (B7-2) on experimental colors and anti-CD86 (B7-2) on experimental colors and anti-CD86 (B7-1) plus anti-CD86 (B7-2) on experimental colors and anti-CD86 (B7-1) plus anti-CD86 (B7-2) on experimental colors and anti-CD86 (B7-1) plus anti-CD86 (B7-2) on experimental colors and anti-CD86 (B7-1) plus anti-CD86 (B7-2) on experimental colors and anti-CD86 (B7-1) plus anti-CD86 (B7-2) on experimental colors and anti-CD86 (B7-1) plus anti-CD86 (B7-2) on experimental colors and anti-CD86 (B7-2) on experimental colors and anti-CD86 (B7-2) on experimental colors and anti-CD86 (B7-1) plus anti-CD86 (B7-2) on experimental colors and anti-CD86 (B7-1) plus anti-CD86 (B7-2) on experimental colors and anti-CD86 (B7-1) plus anti-CD86 (B7-2) on experimental colors and anti-CD86 (B7-2) on experimental colors
1	IIIR	Pesoa, et al., Regulation of expenmental allergic encephalomyelitis Part 5. Role of the recepient in
	ארור	Pettinelli, et al., "Adoptive transfer of experimental allergic encephalomyelitis in SIDJ mice aller in VIDD activation of lymph node calls by myelin basic protein: requirement for Lyt 1° 2° T lymphocytes," J. Immunol., 1970, 1971, 1970, 1973, 1970, 1973, 1974, 1975, 19
	1	Skolnick, et al., "From genes to protein structure and function: novel applications of computational structure and function, novel applications of computational structure and function.
	1	Sobel, et al. "Acute experimental allergic encephalomyelitis in SJL/J mice induced by a synthetic peptide of
<u> </u>		Stamenkovic, et al., "A B-lymphocyte activation molecule related to the nerve growth factor receptor and the nerve growth factor receptor factor receptor receptor factor receptor recep
	1	Suvas, et al., "Distinct role of CD80 and CD86 in the regulation of the activation of B cell and B cell
	1	Takeda, et al., "Construction of chimaeric processed immunoglobulin genes containing mouse variable and process and containing mouse variable and construct region sequences." <i>Nature</i> , 1985, 314(4):452-454.
		Teng, et al., "Construction and testing of mouse-human heteromyelomas for numan moriocional antibody
	ł	Tuony, et al., "Identification of an encephalitogenic determinant of myelin proteolipid protein for SJL mice,
		Van der Veen, et al., "The adoptive transfer of chronic relapsing experimental altergic encephalomyellis will be a code cells sensitized to myelin proteolipid protein," <i>J. Neuroimmunol</i> , 1989, 21:183-191.
	1	Ward, et al. "Binding activities of a repertoire of single immunoglobulin variable domains secreted from
		Ward, et al., "Blocking of adhesion molecules in vivo as anti-inflammatory therapy," Their Immunoi., 1994.
W	UUUF	1:105-171.  Yi-qun, et all. "Differential requirements for co-stimulatory signals from B7 family members by resting version recently activated memory Ticells towards soluble recall antigens," Int. Immunol., 1998, 8:37-44.
	<del></del>	Date Considered:
Examine EXAMIN citation if		nitial if cration considered, whether or not citation is in conformance with MPEP § 609. Draw line through onformance and not considered. Include copy of this form with next communication to Applicant.

PANNESANGE 1/14/65

FORM PT	O-144	9 (mc	odified) .	OTPE Y	PROE LIVE		Atty. Ref. No. 037003-0280705			Client Ref. 1995-30-0233CP3			
INFORMA BY APPL		DISC	LOSURE ST	•			Applicant:	ANDERSON	et al.				
DIAPPL	ICAGTI			U INAG			Appln. No.:	10/073,138	<del></del>				
							Filing Date:	February 13	2002				
Date: Octo	ober 15	. 200	14	Page 1 of 2			Examiner:	Gambel, P.	Group Art	Unit:	1644		
U.S. PATI					<del>- 7:32</del>		<u> </u>						
Examiner's Do		Do	ument Date		Name				Class	1		ing Date	
Initials*			mber	MM/YYYY		(Family Name of		First Inventor)		Cla	SS (if a	(if appropriate)	
- pro-	AR		5,304,635	04/1994	lmam					+	<u> </u>		
	BR			<u> </u>	<u> </u>		·						
	CR	<u> </u>		<u> </u>	,	· · · · · · · · · · · · · · · · · · ·			<u> </u>		<u> </u>		
FOREIGN	PATE	NT D	OCUMENTS						English Abstract		Translat Readily	ion Available	
	Γ	Doc	ument	Date	Country	Inve	ntor Name				l'teadily !	Available	
		Num		MM/YYYY									
									Enclosed	No	Enclose	No	
	DR							•					
	ER												
	FR							•			<u> </u>		
OTHER (I	ncludin	g in t	his order Auth	or, Title, Pe	riodical Nam	e, Dat	e, Pertinent F	Pages, etc.)			<u> </u>	J	
M	GR							the activating a ol., 1992, 148:3		suppr	essive pr	operties	
1	HR		Azuma M., et	al., "CD28 !	Interaction wi	ith B7	Costimulates	Primary Alloge	neic Prolife			es and	
	IR			ediated by Small Resting T Lymphocytes," J. Exp. Med., 1992, 175:353-360.									
	<b> </b>  '`.		177:845-850.	ai., Turiouc	, "Functional Expression of B7/BB1 on Activated T Lymphocytes," J. E	J. L.Ą.	Exp. Med., 1995,						
	JR Azuma M.D.,		et al., "B70 Antigen is a Second Ligand for CTLA-4 and CD28," Nature, 1993, 366:76-79.										
	I I		A., et al., "Activated human B lymphocytes express three CTLA-4 counter-receptors that coell activation," Proc. Natl. Acad. Sci., USA, 1993, 90:11059-11063.										
	-,		ounting a targeted strike on unwanted immune responses," (news; comment), Science, 1992,										
	MR De Boer M., e		et al., "Functional Characterization of a Novel Anti-B7 Monoclonal Antibody," Eur. Journal of 1992, 22:3071-3075.										
	NR					sarv fo	or the war on	cancer," Biotecl	nology, 19	94. 12	2:320.		
	OR		Engel et al, "	The B7-2 (B	70) costimula	atory r	nolecule exp	ressed by mond				hocytes	
	PR		Is the CD86 differentiation antigen," Blood, 1994, 84, 1402-1407.  Freeman G.J., et al., "CTLA-4 and CD28 MRNA are Coexpressed in Management of Immunology, 1993, 140:2705, 2894						st T Cells A	After A	ctivation,	" The	
	QR		Journal of Immunology, 1992, 149:3795-3801  Geenen V. and G. Kroemer, "Multiple Ways to Cellular Immune Tolerance," Immunology Today, 1993,										

Hart D.N.J., et al., "B7/BB-1 is a Leucocyte Differentiation Antigen on Human Dendritic Cells Induced by Activation." Immunology, 1993, 79:616-620

lonescu-Tirgoviste, et al, "Correlations between insulin antibodies and the HLA system in a group of Type I diabetic patients in Bucharest," Med. Interre, 1986, 24(1), 11-17.

PAT-1449 12/89

Gimmi C.D., et al., "Human T-Cell Clonal Anergy is Induced by Antigen Presentation in the Absence of B7

Gribben J.G., et al., "CTLA-4 mediates antigen specific apoptosis of human T cells." Proc. Natl. Acad. Sci.

Harding F.A., et al., "CD28 Mediated Signalling Co-stimulates Murine T Cells and Prevents Induction of

Grumet F.C., et al., "Soluble form of an HLA-B7 Class I Antigen Specifically Suppresses Humoral

Costimulation," Proc. Natl. Acad. Sci., 1993, 90:6586-6590.

Alloimmunization." Human Immunology, 1994, 40:228-234.

Anergy in T Cell Clones." Nature, 1992, 356:607-609.

USA, 1995, 9<u>2:811-815.</u>

RR

SR

TŔ

UR

VR

WR

<u>v</u>	XR -	Janeway C.A., Jr. and K. Bottomly, "Signals and Signs for Lymphocyte Responses," Cell, 1994, 76.275-285.								
	YR	Jenkins M.K., "The Role of Cell Division in the Induction of Clonal Anergy." Immunology Today, 1992, 13:69.								
T	ZR	June C.H., et al., "The B7 and CD28 receptor families," Immunol Today, 1994, 15:321-331.								
	AAR	Krummel M., et al., "CD28 and CTLA-4 have opposing effects on the response of T cells to stimulation," Exp. Med. 1995, 182:459-466.								
PE	BBR	LaSalle J.M., et al., "Early signaling defects in human T cells anergized by T cell presentation of autoantigen," J. Exp. Med., 1992, 176:177-186.								
97	WE CEY	Lenschow D.J., et al., "Long-Term Survival of Xenogeneic Pancreatic Islet Grafts Induced by CTLA-4lg," Science, 1992, 257:789-795.								
THACE		Lenschow D.J., et al., "Expression and Functional Significance of an Additional Ligand for CTLA-4," ProcNatl. Acad. Sci., USA,,1993, 90:11054-11058.								
HAU	EER	Lin H., et al., "Long-term Acceptance of Major Histocompatibility Complex Mismatched Cardiac Allografts Induced by CTLA-4-Ig Plus Donor Specific Transfusion," J. Exp. Med., 1993, 178:1801.								
	FFR	Linsley, P.S., et al., "CTLA-4 is a Second Receptor for the B Cell Activation Antigen B7," J. Exp. Med., 1991, 174:561.								
	GGR	Linsley P.S., et. al., "T-Cell Antigen CD28 Mediates Adhesion with B Cells by Interacting with Activation Antigen B7/BB-1." Proc. Natl. Acad. Sci., 1990, 87:5031-5035.								
	HHR	Linsley, et al, "CD28 Engagement by B7/BB-1 Induces Transient Down-Regulation of CD28 Synthesis at Prolonged Unresponsiveness to CD28 Signaling," The Journal of Immunology, 1993, 150:3161-3169.								
	IIR	Linsley, et al., "Binding of the B cell activation antigen B7 to CD28 costimulates T cell proliferation and interleukin 2 mRNA accumulation," J. Exp. Med., 1991, 173:721-730.								
	JJR	Linsley P.S., et. al., "Coexpression and Functional Cooperation of CTLA-4 and CD28 on Activated T Lymphocytes." J. Exp. Med., 1992, 176:1595-1604.								
	KKR	Morton P.A., et al., "Differential effects of CTLA-4 substitutions on the binding of human CD80 (B7-1) an CD86 (B7-2)," J. Immunol., 1996,156:1047-1054.								
	LLR	Nestle F.O., et al, "Characterization of dermal dendritic cells in psoriasis," J. Clin. Invest., 1994, 94: 202-209.								
	MMR	Schwartz R.H., "Co-stimulation of T lymphocytes: The role of CD28, CTLA-4, and B7/BB1 in interleukin-production and immunotherapy," Cell, 1992, 71:1065-1068.								
	NNR	Schwartz R.H., "A cell culture model for T lymphocyte clonal anergy," Science, 1990, 248:1349-1356.								
	OOR	Selvakumar,A., et al., "Genomic organization and chromosomal location of the human gene encoding the B-lymphocyte activation antigen B7," <a href="mailto:lmmunogenetics">lmmunogenetics</a> , 1992, 36:175-181								
	PPR	Tan P., et al., "Induction of Alloantigen-specific Hyporesponsiveness in Human T Lymphocytes by Block Interaction of CD28 with Its Natural Ligand B7/BB1," J. Exp. Med., 1993, 177:165-173.								
	QQR	Tivol E.A., et al., "Loss of CTLA-4 leads to massive lymphoproli-feration and fatal multiorgan tissue destruction, revealing a critical negative regulatory role of CTLA-4," Immunity, 1995, 3:541-547.								
	RRR	Turka L.A., et al., "T-cell activation by the CD28 ligand B7 is required for cardiac allograft rejection in vivo								
	SSR	Toubert A., et al., "Epitope mapping of an HLA-B27 monoclonal antibody that also reacts with a 35-kD bacterial out-membrane protein," Clin. Exp. Immunol., 1990, 82(1), 16-20.								
	TTR	Toubert A., et al., "Epitope mapping of HLA-B27 and HLA-B7 antigens by using intradomain recombinan J. Immunol., 1988, 141(7), 2503-9.								
	UUR	Valle et al., "mAb 104, a new monoclonal antibody, recognizes the B7 antigen that is expressed on activated B cells and HTLV-1-transformed T cells," Immunol., 1990, 69(4), 531-535.								
	VVR	Vandenberghe P., et al "Antibody and B7/BB1-mediated ligation of the CD28 receptor induces tyrosine phosphorylation in human T cells," J. Exp. Med., 1992, 175:951-960.								
	WWR	van der Merwe, et al., "CD80 (B7-1) binds both CD28 and CTLA-4 with a low affinity and very fast kinetics, J. Exp. Med., 1997,185: 393-403.								
	XXR	Weyl D., et al., "Epitope mapping of human monoclonal antibodies to HLA-B27 by using natural and mutated antigenic variants," Hum. Immunol., 1991, 31(4), 271-276.								
<del>'</del>	YYR	Zavazava N., et al, "Inhibition of anti-HLA-B7 alloreactive CTL by affinity-purified soluble HLA,"								

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

30486362\_1.DOC